

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claim 1 (original): A method of electronically signing documents, comprising the steps of generating a token of delegation from a first signatory to a second signatory, and associating the delegation token with a document signed electronically by means of a cryptographic key of the second signatory, wherein the delegation token contains delegation data electronically signed for the first signatory, wherein the delegation data include an identifier of the second signatory, and wherein the delegation token is generated by a server in response to a request sent by the second signatory in connection with the signing of the document.

Claim 2 (original): A method according to claim 1, wherein the electronic signature performed by means of the cryptographic key of the second signatory is applied to the document accompanied by the delegation token.

Claim 3 (original): A method according to claim 1, wherein the electronic signature performed by means of the cryptographic key of the second signatory is applied on the one hand to the document and on the other hand to authenticated attributes including the delegation token.

Claim 4 (original): A method according to claim 1, wherein the delegation token is associated with the document signed by means of the cryptographic key of the second signatory without itself being signed by means of the cryptographic key of the second signatory.

Claim 5 (original): A method according to claim 1, wherein the delegation data further include data describing a validity period of the delegation token.

Claim 6 (original): A method according to claim 1, wherein the delegation data further include description data of delegated powers conferred by the token.

Claim 7 (original): A method according to claim 1, wherein the delegation token further comprises timestamp information for the token.

Claim 8 (original): A method according to claim 1, wherein a revocation server is provided for storing information on possible revocation of the delegation token by the first signatory.

Claim 9 (original): A method according to claim 8, wherein the delegation data further include an access address to the revocation server.

Claim 10 (original): A method according to claim 1, wherein the delegation data are signed electronically by means of a cryptographic key of the first signatory.

Claim 11 (original): A method according to claim 1, wherein the delegation data further include an identifier of the first signatory and are signed electronically by means of a cryptographic key of a third party.

Claim 12 (original): A method according to claim 1, wherein the delegation token is associated by the second signatory with the document signed electronically by means of a cryptographic key of the second signatory.

Claim 13 (original): A method according to claim 1, wherein the delegation token is sent to the second signatory by the server.

Claim 14 (original): A method according to claim 13, wherein the delegation token is associated with the signed document by an applet downloaded from the server to a station of the secondary signatory.

Claim 15 (original): A method according to claim 1, wherein the second signatory signs the document electronically and submits the signed document to the server, and wherein the server associates the signed document with the delegation token.

Claim 16 (original): A method according to claim 1, wherein said request is accompanied by data depending on the document to be signed which are included in said delegation data to generate the delegation token.

Claim 17 (original): A method according to claim 16, wherein said data depending on the document to be signed comprise a code obtained by hashing the document.

Claim 18 (original): A computer device for electronic signature of documents by a second signatory delegated by a first signatory, comprising means for electronically signing a document by means of a cryptographic key of the second signatory, means for obtaining a token of delegation from the first signatory to the second signatory, and means for associating the delegation token with the signed document, wherein the delegation token comprises delegation data electronically signed for the first signatory, wherein the delegation data include an identifier of the second signatory, and wherein the means for obtaining the delegation token are adapted to send a request relating to the signing of the document to a server and to receive the token in response to said request.

Claim 19 (original): A device according to claim 18, wherein the signature means are adapted to sign electronically the document accompanied by the delegation token, by means of the cryptographic key of the second signatory.

Claim 20 (original): A device according to claim 18, wherein the signature means are adapted to sign electronically on the one hand the document and on the other hand authenticated attributes including the delegation token, by means of the cryptographic key of the second signatory.

Claim 21 (original): A device according to claim 18, wherein the delegation data further include data describing a validity period of the delegation token.

Claim 22 (original): A device according to claim 18, wherein the delegation data further include data describing delegated powers conferred by the token.

Claim 23 (original): A device according to claim 18, wherein the delegation data further include an access address to a revocation server storing information on possible revocation of the delegation token by the first signatory.

Claim 24 (original): A device according to claim 18, wherein the delegation token further comprises timestamp information for the token.

Claim 25 (original): A device according to claim 18, wherein said request is accompanied by data depending on the document to be signed.

Claim 26 (original): A delegation server for use in the electronic signing of documents by a second signatory delegated by a first signatory, comprising means for generating a token of delegation from the first signatory to the second signatory in response to a request sent by the second signatory in connection with the signing of a document, wherein the delegation token contains delegation data electronically signed for the first signatory, and wherein the delegation data include an identifier of the second signatory.

Claim 27 (original): A server according to claim 26, further comprising means for sending the delegation token to the second signatory for association with the document signed electronically by means of a cryptographic key of the second signatory.

Claim 28 (original): A server according to claim 27, further comprising means for uploading an applet to a station of the secondary signatory in order to control the association of the delegation token with the electronically signed document.

Claim 29 (original): A server according to claim 26, wherein said request is accompanied by data depending on the document to be signed which are included in said delegation data to generate the delegation token.

Claim 30 (original): A server according to claim 26, wherein said data depending on the document to be signed comprise a code obtained by hashing the document.

Claim 31 (original): A server according to claim 26, further comprising means for receiving the signed document from the second signatory, and means for associating the signed document with the delegation token.

Claim 32 (original): A server according to claim 26, wherein the delegation data further include data describing a validity period of the delegation token.

Claim 33 (original): A server according to claim 26, wherein the delegation data further include description data of delegated powers conferred by the token.

Claim 34 (original): A server according to claim 26, wherein the delegation token further comprises timestamp information for the token.

Claim 35 (original): A server according to claim 26, wherein the delegation data further include an access address to a revocation server provided for storing information on possible revocation of the delegation token by the first signatory.

Claim 36 (original): A server according to claim 26, wherein the delegation data further include an identifier of the first signatory and are signed electronically by means of a cryptographic key of a third party.

Claim 37 (original): A computer program product to be installed in a computer device for electronic signature of documents by a second signatory delegated by a first signatory,

comprising instructions for carrying out the following steps when the program is run by processing means of said device:

- sending a request to a delegation server in connection with the signing of a document;
- receiving a token of delegation from a first signatory to a second signatory, generated by the server in response to said request, wherein the delegation token contains delegation data electronically signed for the first signatory, wherein the delegation data include an identifier of the second signatory;
- electronically signing the document by means of a cryptographic key of the second signatory; and
- associating the delegation token with the signed document.

Claim 38 (original): A computer program product according to claim 37, wherein the electronic signature performed by means of the cryptographic key of the second signatory is applied to the document accompanied by the delegation token.

Claim 39 (original): A computer program product according to claim 37, wherein the electronic signature performed by means of the cryptographic key of the second signatory is applied on the one hand to the document and on the other hand to authenticated attributes including the delegation token.

Claim 40 (original): A computer program product according to claim 37, wherein the delegation token is associated with the document signed by means of the cryptographic key of the second signatory without itself being signed by means of the cryptographic key of the second signatory.

Claim 41 (original): A computer program product according to claim 37, including an applet downloaded from the server to said computer device.

Claim 42 (original): A computer program product according to claim 37, wherein said request is accompanied by data depending on the document to be signed which are included in said delegation data to generate the delegation token.

Claim 43 (original): A computer program product according to claim 42, wherein said data depending on the document to be signed comprise a code obtained by hashing the document.

Claim 44 (original): A computer program product to be installed in a delegation server involved in the electronic signature of documents by a second signatory delegated by a first signatory, comprising instructions for carrying out the following steps when the program is run by processing means of said server:

- receiving a request from the second signatory in connection with the signing of a document; and
- generating a token of delegation from a first signatory to a second signatory in response to said request, to be associated with the document signed electronically by means of a cryptographic key of the second signatory,

wherein the delegation token contains delegation data electronically signed for the first signatory, wherein the delegation data include an identifier of the second signatory.

Claim 45 (original): A computer program product according to claim 44, further instructions means for sending the delegation token to the second signatory for association with the document signed electronically by means of the cryptographic key of the second signatory.

Claim 46 (original): A computer program product according to claim 45, further comprising instructions for uploading an applet to a station of the secondary signatory in order to control the association of the delegation token with the electronically signed document.

Claim 47 (original): A computer program product according to claim 44, wherein said request is accompanied by data depending on the document to be signed which are included in said delegation data to generate the delegation token.

Claim 48 (original): A computer program product according to claim 44, wherein said data depending on the document to be signed comprise a code obtained by hashing the document.

Claim 49 (original): A computer program product according to claim 44, further comprising instructions for receiving the signed document from the second signatory, and instructions for associating the signed document with the delegation token.

Claim 50 (original): A computer program product according to claim 44, wherein the delegation data further include data describing a validity period of the delegation token.

Claim 51 (original): A computer program product according to claim 44, wherein the delegation data further include description data of delegated powers conferred by the token.

Claim 52 (original): A computer program product according to claim 44, wherein the delegation token further comprises timestamp information for the token.

Claim 53 (original): A computer program product according to claim 44, wherein the delegation data further include an access address to a revocation server provided for storing information on possible revocation of the delegation token by the first signatory.

Claim 54 (original): A computer program product according to claim 44, wherein the delegation data further include an identifier of the first signatory and are signed electronically by means of a cryptographic key of a third party.